

Appendix Test Data for BT(BLE) (Conducted Measurement)

Product Name: Wireless Locator

Trade Mark: SEEKLANE

Test Model: Standard5.0T

FCC ID: 2A96A-STANDARD50T

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.668	2402.336	0.5	PASS
		2440	0.716	2439.640	2440.356	0.5	PASS
		2480	0.664	2479.660	2480.324	0.5	PASS

Test Graphs

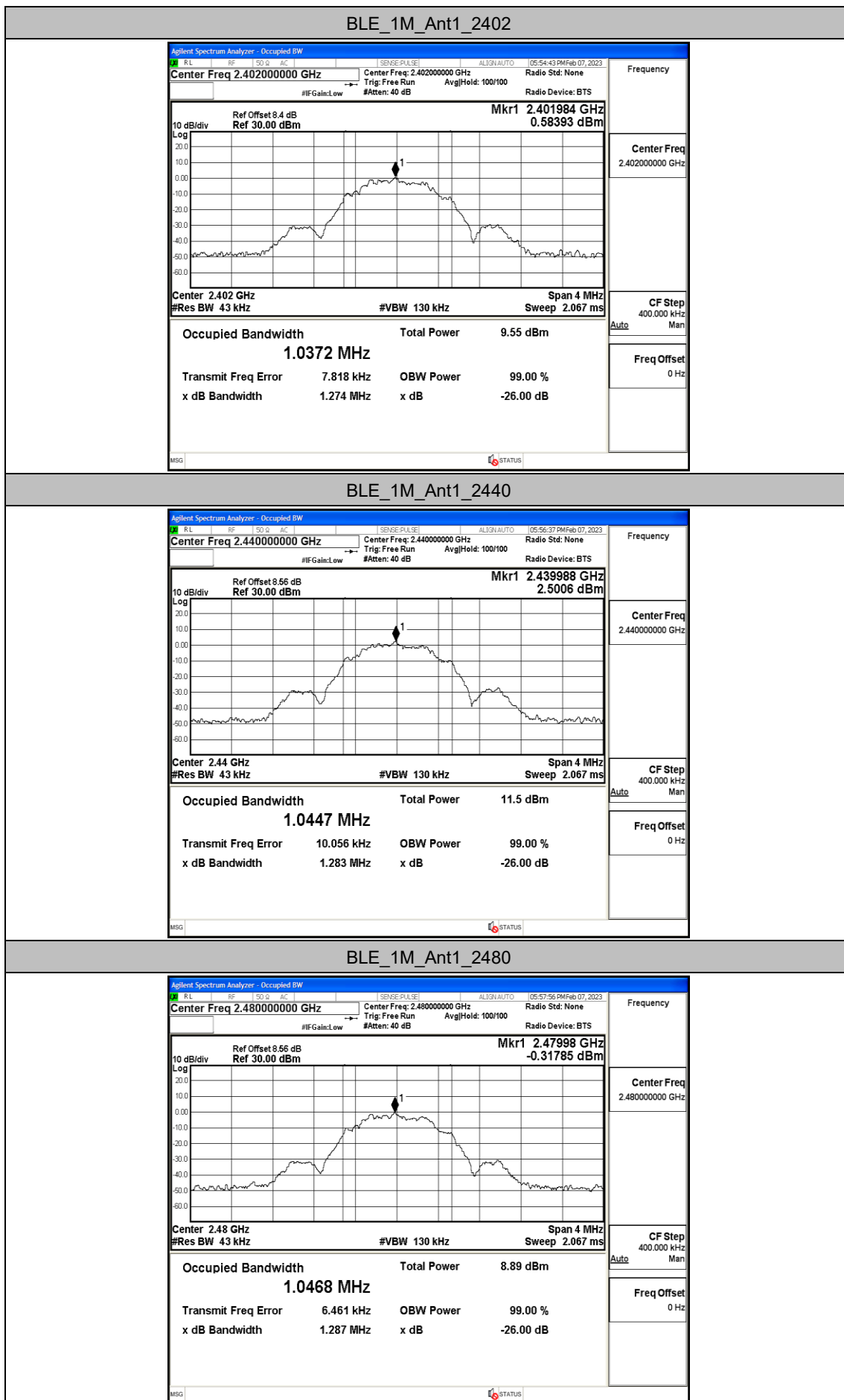


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0372	2401.4892	2402.5264	---	---
		2440	1.0447	2439.4877	2440.5324	---	---
		2480	1.0468	2479.4831	2480.5299	---	---

Test Graphs

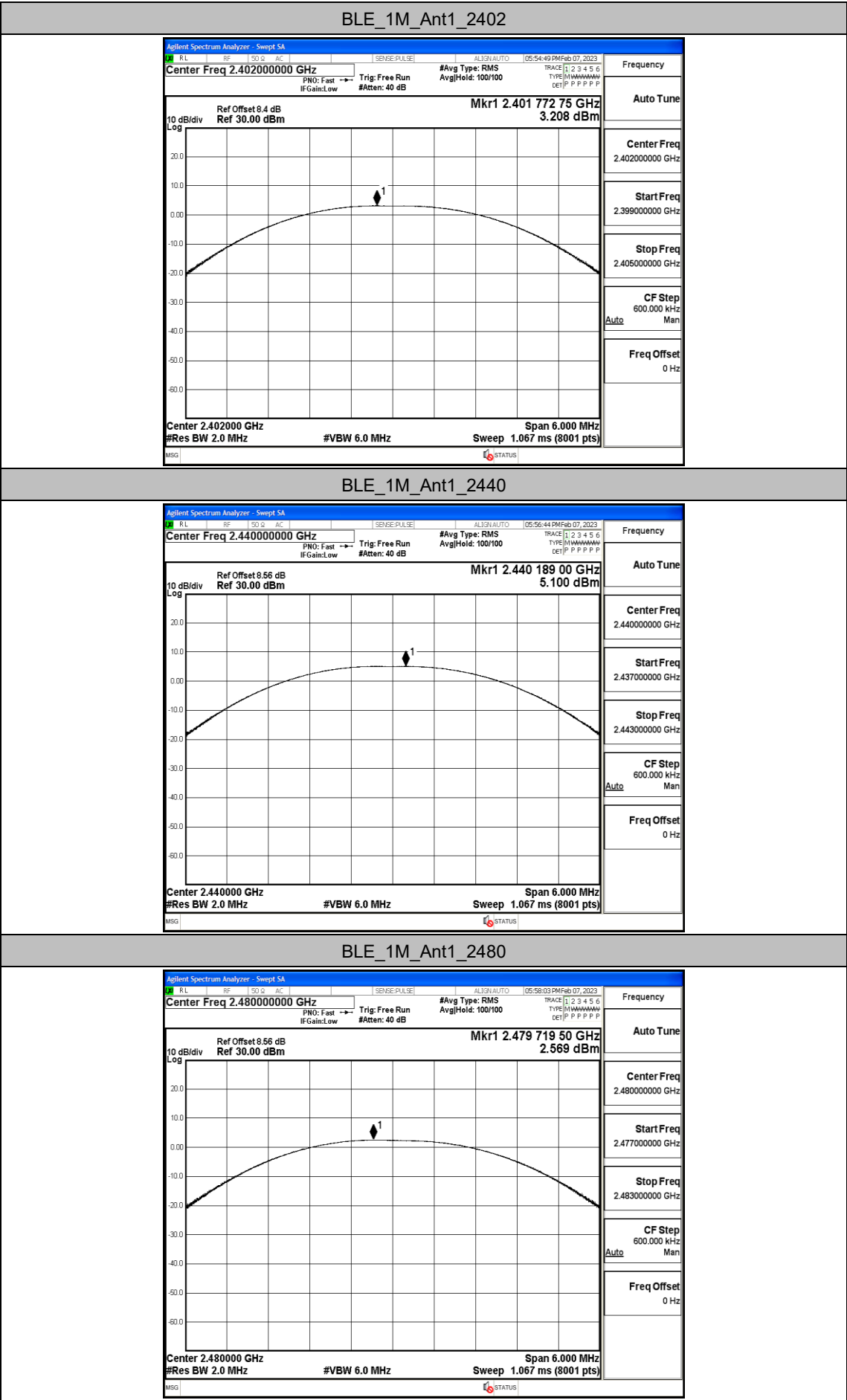


Appendix C: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.21	≤30	PASS
		2440	5.1	≤30	PASS
		2480	2.57	≤30	PASS

Test Graphs

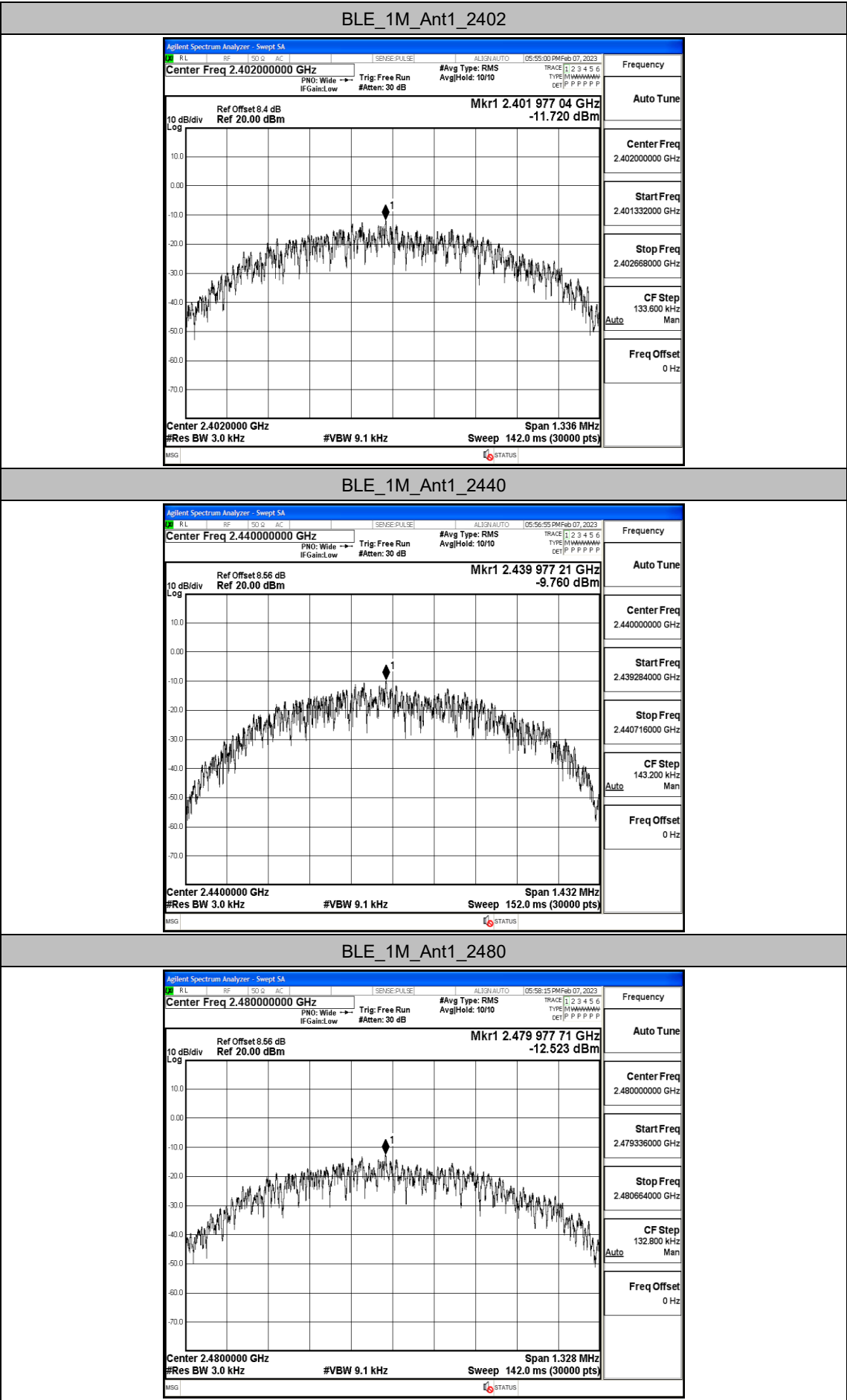


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.72	≤8.00	PASS
		2440	-9.76	≤8.00	PASS
		2480	-12.52	≤8.00	PASS

Test Graphs

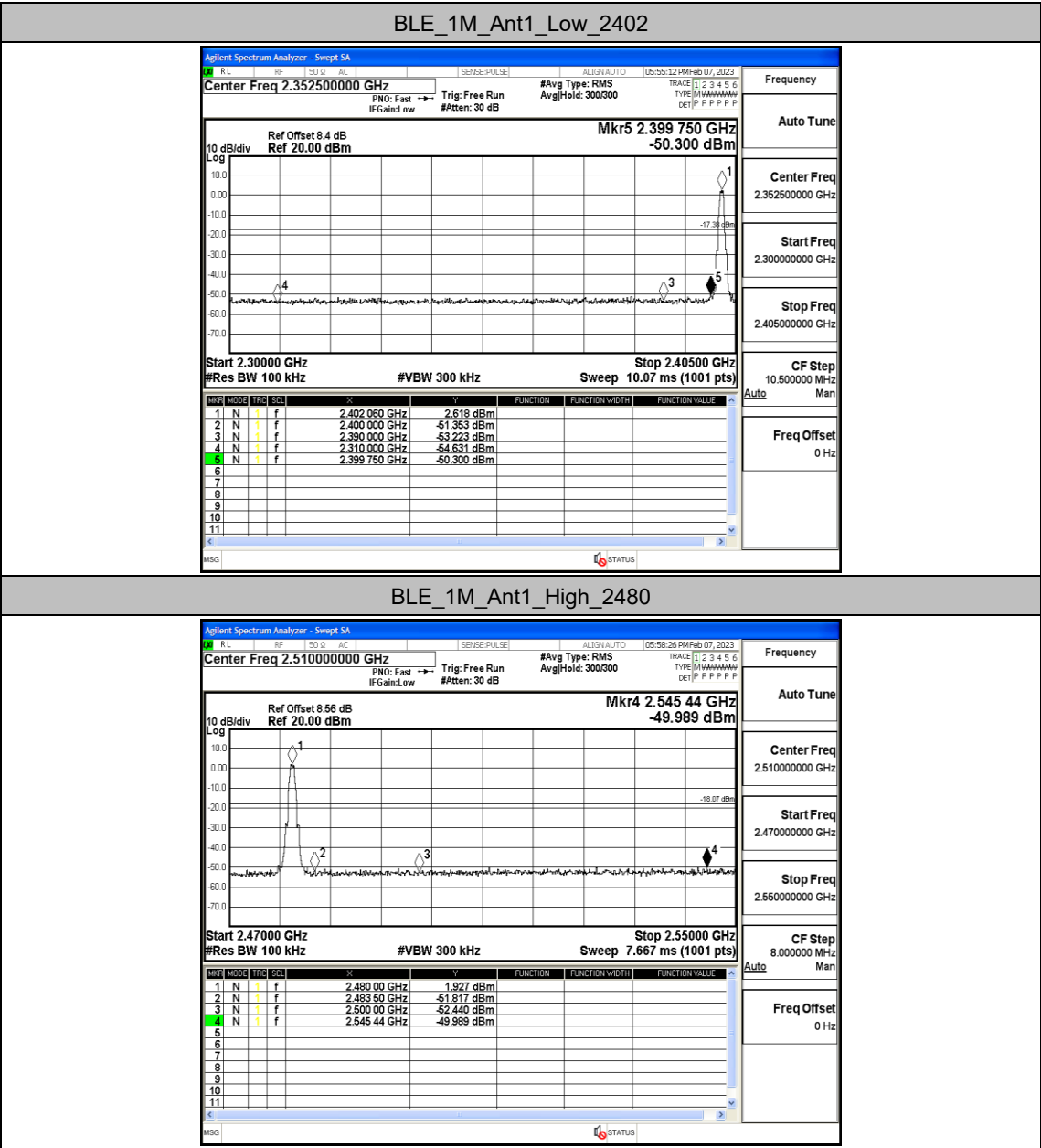


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.62	-50.3	≤-17.38	PASS
		High	2480	1.93	-49.99	≤-18.07	PASS

Test Graphs

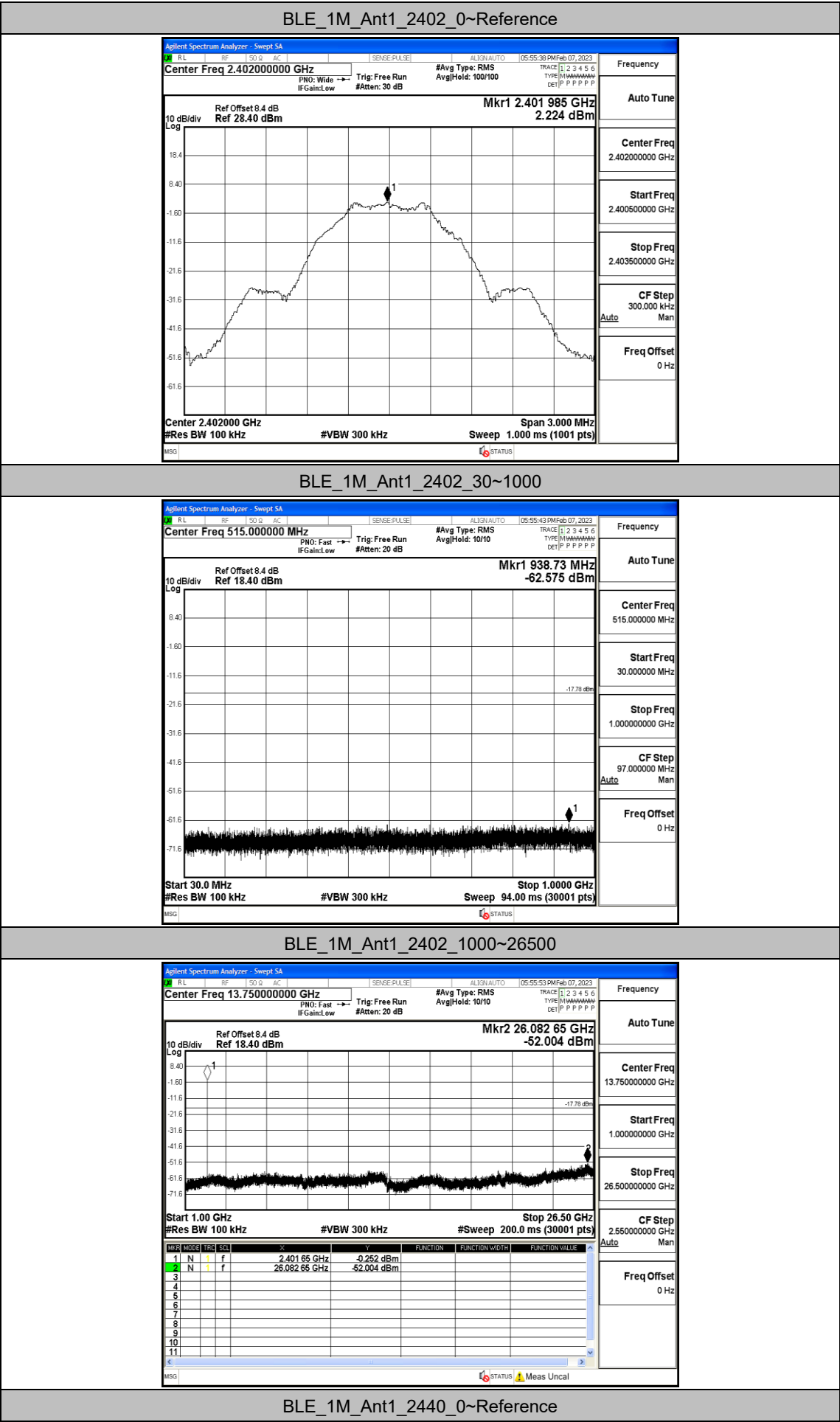


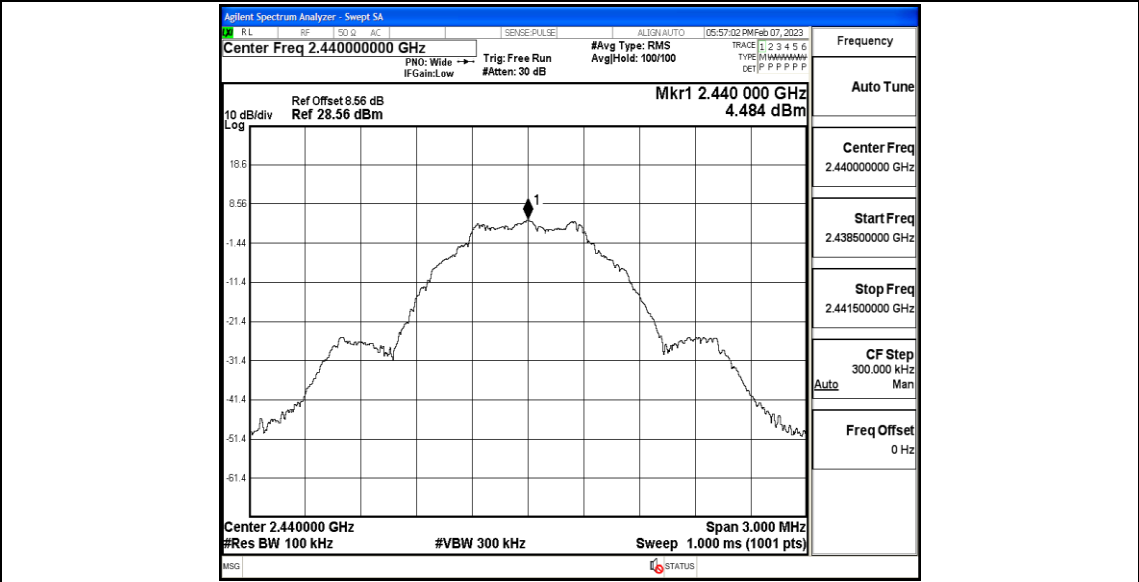
Appendix F: Conducted Spurious Emission

Test Result

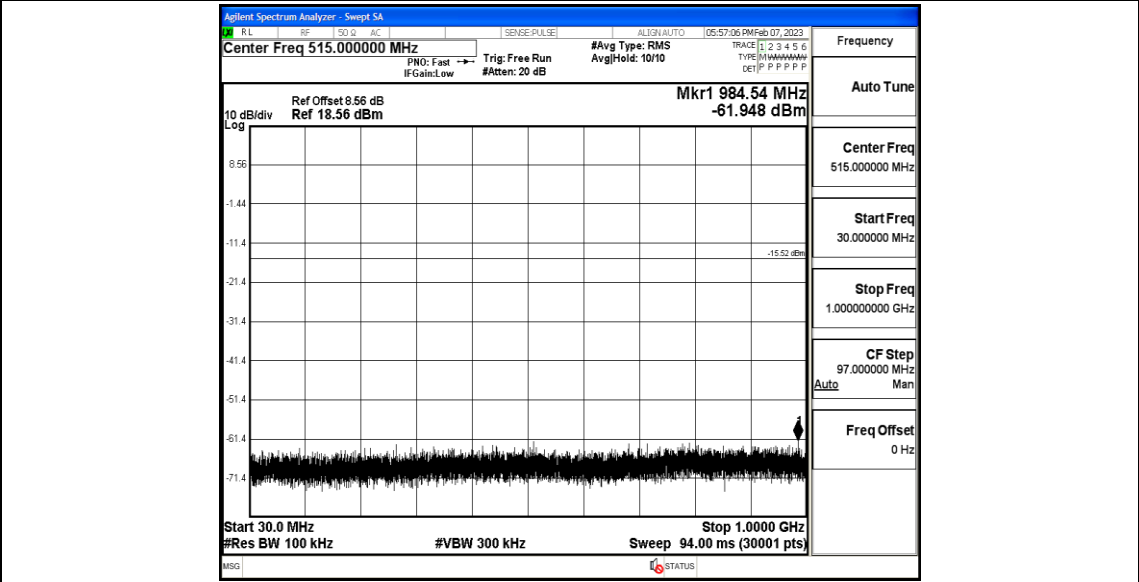
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.22	2.22	---	PASS
			30~1000	2.22	-62.58	≤-17.78	PASS
			1000~26500	2.22	-52	≤-17.78	PASS
		2440	Reference	4.48	4.48	---	PASS
			30~1000	4.48	-61.95	≤-15.52	PASS
			1000~26500	4.48	-51.9	≤-15.52	PASS
		2480	Reference	1.70	1.70	---	PASS
			30~1000	1.70	-61.59	≤-18.3	PASS
			1000~26500	1.70	-51.71	≤-18.3	PASS

Test Graphs

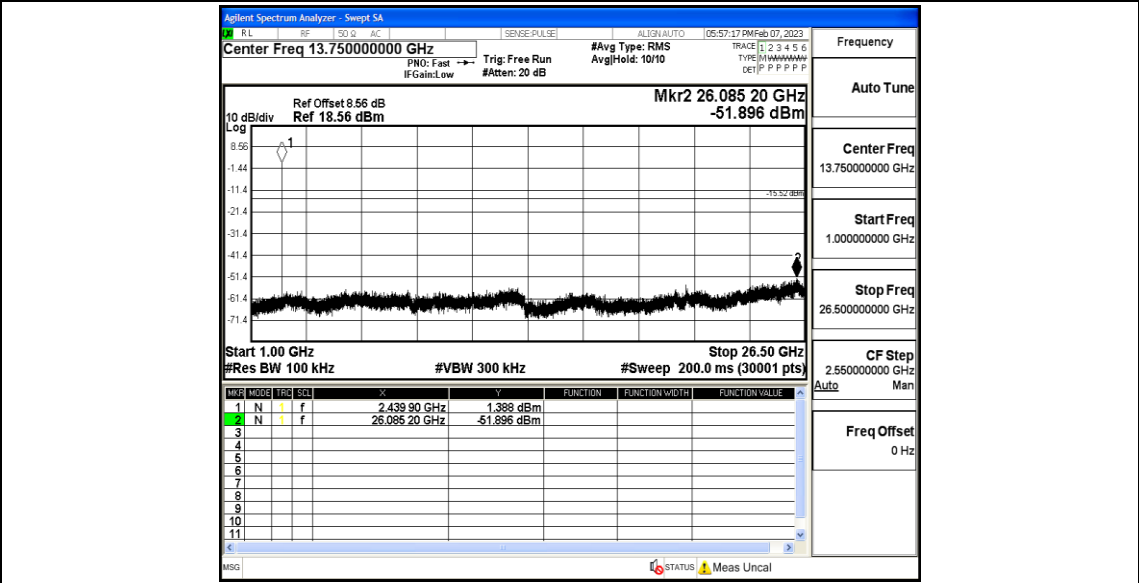




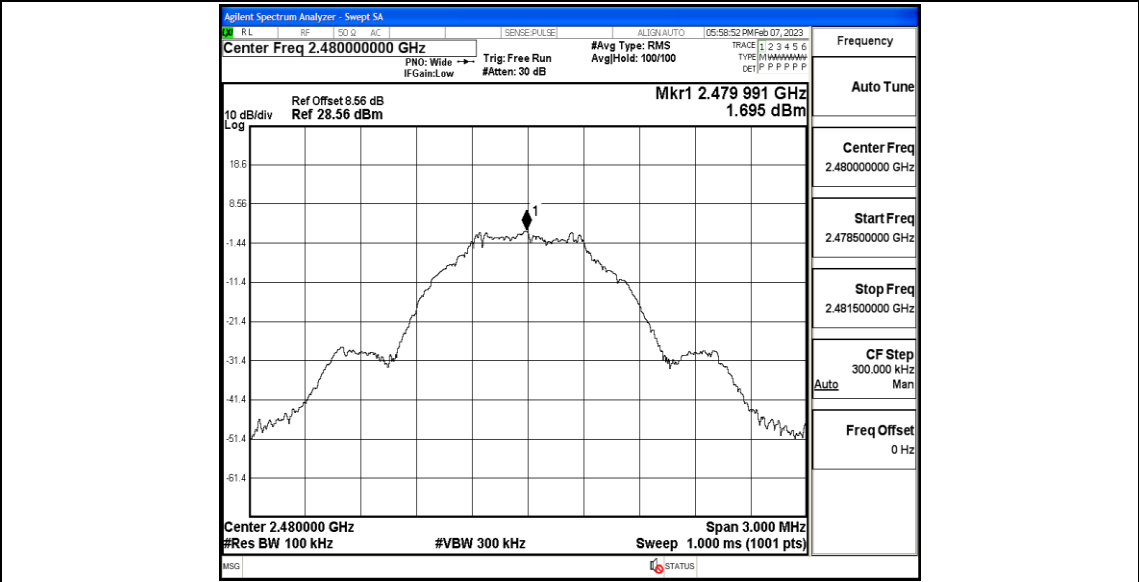
BLE_1M_Ant1_2440_30~1000



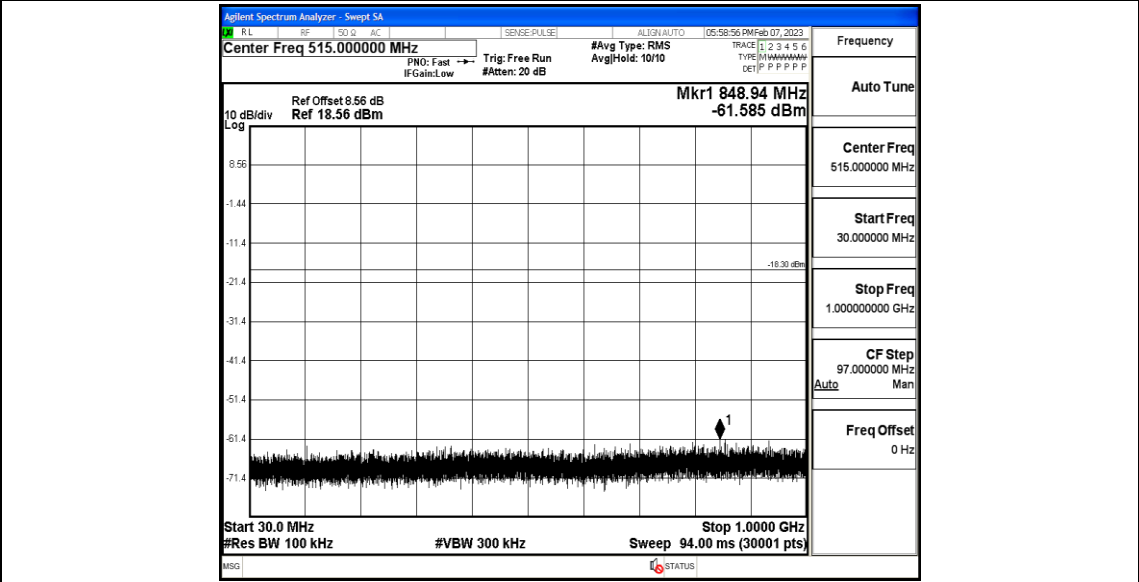
BLE_1M_Ant1_2440_1000~26500



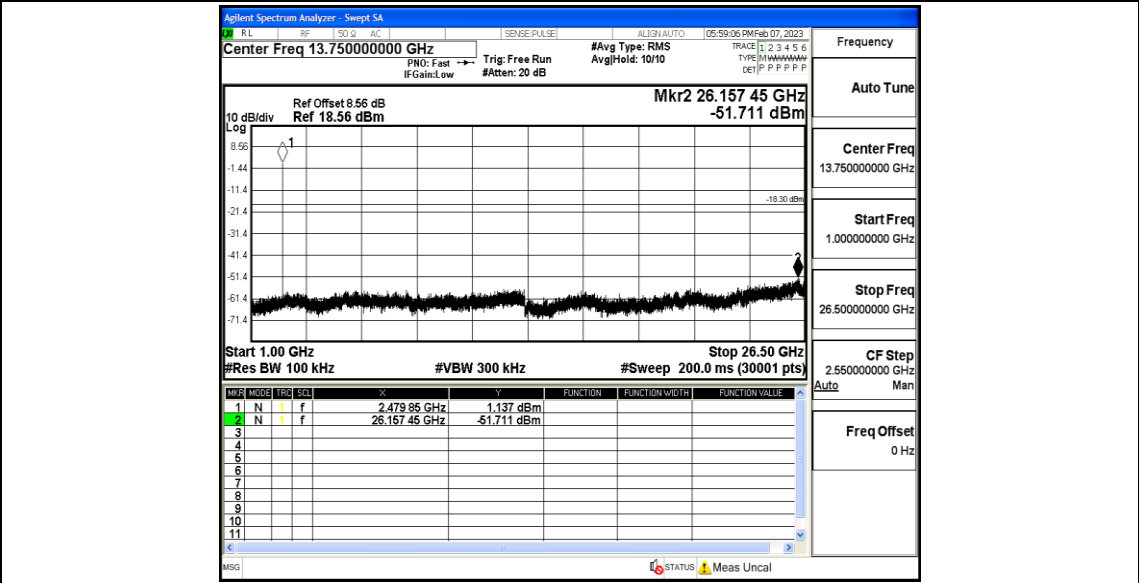
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

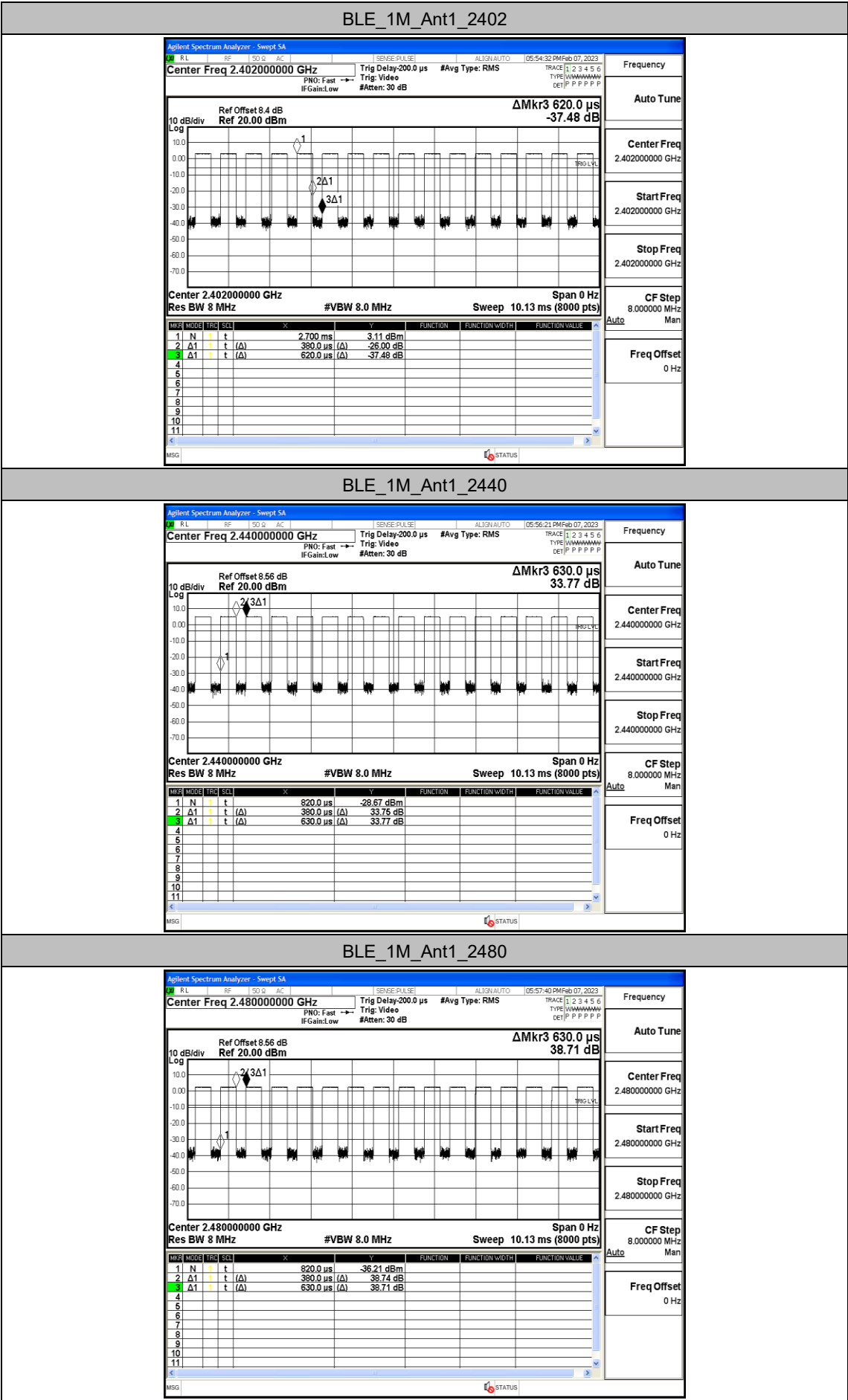


Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.38	0.62	61.29	2.63
		2440	0.38	0.63	60.32	2.63
		2480	0.38	0.63	60.32	2.63

Test Graphs



Appendix H: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.41	≤-41.20	PASS
				AV	2372.555	-48.64	≤-41.20	PASS
				AV	2390.000	-49.04	≤-41.20	PASS
				Peak	2310.000	-42.8	≤-21.20	PASS
				Peak	2325.410	-40.27	≤-21.20	PASS
				Peak	2390.000	-44.17	≤-21.20	PASS
		High	2480	AV	2483.500	-47.86	≤-41.20	PASS
				AV	2483.520	-47.86	≤-41.20	PASS
				AV	2500.000	-48.35	≤-41.20	PASS
				Peak	2483.500	-42.33	≤-21.20	PASS
				Peak	2498.320	-39.49	≤-21.20	PASS
				Peak	2500.000	-41.62	≤-21.20	PASS

Note:

1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

